

MECHANICS OF FLUIDS

1. Determine the mass and the weight of the air contained in a room whose dimensions are 6 m x 6 m x 8 m. Assume the density of the air is 1.16 kg/m^3 .

1. Determined the mass and the weight of the air contained in a room whose dimensions are 6m x 6m x 8m. Assume the density of the air is 1.16 kg/m^3 .

Given :

$$\rho = 1.16 \text{ kg/m}^3 \longrightarrow \text{Density of air}$$

$$g = 9.81 \text{ m/s}^2 \longrightarrow \text{Assume gravity acceleration}$$

$$6 \text{ m} \times 6 \text{ m} \times 8 \text{ m} \longrightarrow \text{Dimension of room}$$

Solutions:

Volume of room:

$$V = 6 \text{ m} \times 6 \text{ m} \times 8 \text{ m} = 288 \text{ m}^3$$

Mass is defined by volume of room & air :

$$m = \rho \cdot V = \left(1.16 \frac{\text{kg}}{\text{m}^3} \right) (288 \text{ m}^3) = \boxed{334.08 \text{ kg}}$$

Weight of object :

$$G = m \cdot g = (334.08 \text{ kg}) (9.807 \frac{\text{m}}{\text{s}^2}) \left(\frac{1 \text{ N}}{1 \text{ kg} \cdot \frac{\text{m}}{\text{s}^2}} \right) = \boxed{3277.33 \text{ N}}$$

Therefore :

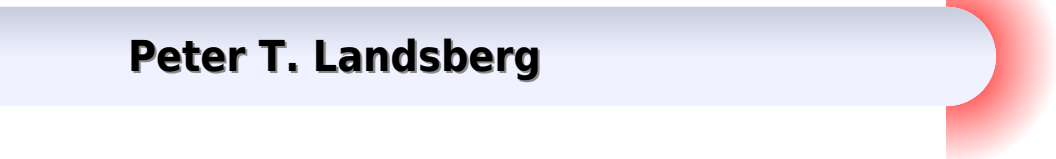
$$m = 334.08 \text{ kg}$$

$$G = 3277.33 \text{ N}$$

Armaline D. Quillas ~~Armaline D. Quillas~~ P.

Thermodynamics Problem And Solution

Peter T. Landsberg



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and Education Association, 1993 REA's Thermodynamics Problem Solver Each Problem Solver is an insightful and essential study and solution guide chock full of clear concise problem solving gems Answers to all of your questions can be found in one convenient source from one of the most trusted names in reference solution guides More useful more practical and more informative these study aids are the best review books and textbook companions available They're perfect for undergraduate and graduate studies This highly useful reference provides thorough coverage of pressure work and heat energy entropy first and second laws ideal gas processes vapor refrigeration cycles mixtures and solutions For students in engineering physics and chemistry **Problems in Chemical Thermodynamics with Solutions** Maka Aleksishvili, Shota Sidamonidze, 2002

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Balmer, 2011-01-03 Modern Engineering Thermodynamics Textbook with Tables Booklet offers a problem solving approach to basic and applied engineering thermodynamics with historical vignettes critical thinking boxes and case studies throughout to help relate abstract concepts to actual engineering applications It also contains applications to modern engineering issues This textbook is designed for use in a standard two semester engineering thermodynamics course sequence with the goal of helping students develop engineering problem solving skills through the use of structured problem solving techniques The first half of the text contains material suitable for a basic Thermodynamics course taken by engineers from all majors The second half of the text is suitable for an Applied Thermodynamics course in mechanical engineering programs The Second Law of Thermodynamics is introduced through a basic entropy concept providing students a more intuitive understanding of this key course topic Property Values are discussed before the First Law of Thermodynamics to ensure students have a firm understanding of property data before using them Over 200 worked examples and more than 1 300 end of chapter problems provide an extensive opportunity to practice solving problems For greater instructor flexibility at exam time thermodynamic tables are provided in a separate accompanying booklet University students in mechanical chemical and general engineering taking a thermodynamics course will find this book extremely helpful Provides the reader with clear presentations of the fundamental principles of basic and applied engineering thermodynamics Helps students develop engineering problem solving skills through the use of structured problem solving techniques Introduces the Second Law of Thermodynamics through a basic entropy concept providing students a more intuitive understanding of this key course topic Covers Property Values before the First Law of Thermodynamics to ensure students have a firm understanding of property data before using them Over 200 worked examples and more than 1 300 end of chapter problems offer students extensive opportunity to

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